NC/QC/W-06/2019-20/RC-PCC3

Date: 08-05-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	67.30	0 -20	30- 70
10mm	26.90	0 -5	10- 35
4.75mm	3.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.60	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	88.25	60-95	75-100	85-100	
01.18	73.90	30-70	55-90	75-100	
600.mic	45.60	15-34	35-59	60-79	
300.mic	17.20	5-20	8-30	12-40	
150.mic	8.05	0-10	0-10	0-10	

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NC/QC/W-06/2019-20/RC -SB1 **Date: 10-05-2019**

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	**Average Compressive Strength N/mm^2**
1	400 X 200 X 200	**Solid**	80000	355	4.44	**4.46**
2	,,	,,	80000	365	4.56	
3	,,	,,	80000	350	4.38	

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NC/QC/W-06/2019-20/RC –SB2

Date: 13-05-2019

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.

{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	**Average Compressive Strength N/mm^2**
1	400 X 200 X 200	**Solid**	80000	360	4.50	**4.52**
2	"	"	80000	350	4.38	
3	"	"	80000	375	4.69	

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NC/QC/W-06/2019-20/RC –SB3 Date: 15-05-2019

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	**Average Compressive Strength N/mm^2**
1	400 X 200 X 200	**Solid**	80000	360	4.50	
2	"	"	80000	370	4.62	**4.49**
3	"	"	80000	350	4.37	

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NC/QC/W-06/2019-20/RC-CB4 Date: 20-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19.

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-05-19	20-05-19	07	22500	300	13.33	**13.63**
	002	"	"	"	"	315	14.00	
	003	"	"	"	"	305	13.56	

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NC/QC/W-06/2019-20/RC-CB5 **Date: 23-05-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-05-19	23-05-19	07	22500	310	13.78	**13.56**
	002	"	"	"	"	305	13.56	
	003	"	"	"	"	300	13.33	

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NC/QC/W-06/2019-20/RC-CB6

Date: 25-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-05-19	25-05-19	07	22500	295	13.11	**13.41**
	002	"	"	"	"	310	13.78	
	003	"	"	"	"	300	13.33	

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NC/QC/W-06/2019-20/RC-CB4a

Date: 10-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-05-19	10-06-19	28	22500	405	18.00	**17.56**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	395	17.56	

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NC/QC/W-06/2019-20/RC-CB5a **Date: 13-06-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-05-19	13-06-19	28	22500	395	17.56	**17.11**
	002	"	"	"	"	375	16.67	
	003	"	"	"	"	385	17.11	

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NC/QC/W-06/2019-20/RC-CB6a

Date: 15-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-05-19	15-06-19	28	22500	390	17.33	**17.33**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	395	17.56	

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NC/QC/W-06/2019-20/RC -K1 Date: 15-05-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.45	23.22	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.35	22.95		
3	003	3.37	23.30		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.38	4.46
2	002	4.46	
3	003	4.55	

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NC/QC/W-06/2019-20/RC-K2 **Date: 16-05-2019**

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.40	23.65	**23.20**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.34	22.80		
3	003	3.36	23.15		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.42	**4.43**
2	002	4.35	
3	003	4.54	

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NC/QC/W-06/2019-20/RC-K3 **Date: 18-05-2019**

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19.
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.39	23.50	**23.28**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.35	22.95		
3	003	3.38	23.40		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.48	**4.56**
2	002	4.65	
3	003	4.56	

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NC/QC/W-06/2019-20/RC-K4 **Date: 20-05-2019**

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.35	**22.25**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.35	22.95		
3	003	3.38	23.45		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.58	**4.46**
2	002	4.42	
3	003	4.38	

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NC/QC/W-06/2019-20/RC-W1 Date: 20-05-2019

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	---	-
22.40	**76.25**	60-80
11.20	**57.45**	40-60
4.75	**34.35**	25-40
2.36	**23.05**	15-30
0.600	**18.55**	8-22
0.075	**3.75**	0-5

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